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PTO/SB/08A (10-88)
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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1448A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 6

Complete if Known

Application Number	10/607,580
Filing Date	June 26, 2003
First Named Inventor	Nicholas Grippi
Group Art Unit	1632 1651
Examiner Name	Not Yet Assigned HANLEY
Attorney Docket Number	015445-9002-01

U.S. PATENT DOCUMENTS

Examiner Initials [*]	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
SMA		3,939,822		Markowitz	02-24-1976	
		4,861,477		Kimura	08-29-1989	
		5,030,215		Morse et al.	07-09-1991	
		5,037,549		Ballies	08-06-1991	
		5,165,938		Knighton	11-24-1992	
		5,354,483		Furse	10-11-1994	
		5,389,265		Luoma, II	02-14-1995	
		5,455,009		Volger et al.	10-03-1995	
		5,560,830		Coleman et al.	10-01-1996	
		5,578,459		Gordon et al.	11-26-1996	
		5,585,007		Antanavich et al.	12-17-1996	
		5,599,718		Gorog	02-04-1997	
		5,634,474		Grippi	06-03-1997	
		5,634,893		Rishton	06-03-1997	
		5,674,458		Holm	10-07-1997	
SMA		5,733,545		Hood, III	03-31-1998	
		5,736,033		Coleman et al.	04-07-1998	
		5,738,670		Grippi	04-14-1998	
		6,063,297		Antanavich et al.	05-16-2000	
		6,368,298		Beretta	04-09-2002	

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
SMA		EP	0 580 094 A1		Becton Dickinson	01-26-1994		
		EP	0 592 242 A1		E.R. Squibb & Sons	04-13-1994		
		JP	2504915		Becton Dickinson	05-07-1994		
		WO	94/22503		Opperbas Holding	10-13-1994		
		WO	95/12371		Clarion Pharm.	05-11-1995		
		WO	96/17871		Plasmaseal Corp.	06-13-1996		
		WO	96/27397		Quantic Biomedical	09-12-1996		
		EP	0 740 155 A1		Becton Dickinson	10-30-1996		
		EP	0 512 612 B1		Becton Dickinson	02-04-1998		
		WO	98/58689		Beretta	12-30-1998		

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Date
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12/9/05

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application Number	10/607,580
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Filing Date	June 26, 2003
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First Named Inventor	Nicholas Grippi
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Group Art Unit	1633	1657
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Examiner Name	Not Yet Assigned <i>HANLEY</i>
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Attorney Docket Number	015445-9002-01
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Sheet	2	of	6
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4 of 6

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Application Number	10/607,580
Filing Date	June 26, 2003
First Named Inventor	Nicholas Grippi
Group Art Unit	1632 1651
Examiner Name	Not Yet Assigned HAWLEY
Attorney Docket Number	015445-9002-01

U.S. PATENT DOCUMENTS

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S.M.G.		5,326,535		Vogler et al.	07-05-1994	
		5,378,431		Vogler et al.	01-03-1995	
		5,413,246		Godolphin et al.	05-09-1995	
		5,455,009		Vogler et al.	10-03-1995	
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		5,533,518		Vogler	07-09-1996	
		5,555,920		Godolphin et al.	09-17-1996	
		5,588,946		Graham et al.	12-31-1996	
		5,634,474		Grippi	06-03-1997	
		5,643,192		Hirsh et al.	07-01-1997	
		5,738,670		Grippi	04-14-1998	
		5,772,643		Howell et al.	06-30-1998	
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		6,238,578 B1		Fiehler	05-29-2001	
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		6,406,671 B1		DiCesare et al.	06-18-2002	

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				

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Substitute of form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 5 of 6

Complete if Known

Application Number	10/607,580
Filing Date	June 26, 2003
First Name Inventor	Nicholas Grippi
Group Art Unit	1632 HANLEY
Examiner Name	Not Yet Assigned 1651
Attorney Docket Number	015445-9002-01

U.S. PATENT DOCUMENTS

Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
SMA	5,185,001	Galanakis	02/09/1993
SMA	5,739,288	Edwardson, et al.	04/14/1998
SMA	5,763,410	Edwardson, et al.	06/09/1998
SMA	5,962,420	Edwardson, et al.	10/05/1999
SMA	6,083,383	Huang, et al.	07/04/2000

FOREIGN PATENT DOCUMENTS

Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
	WO	98/11925	Tarantino, et al.	3/26/1998		

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Sheet

6

of

6

Application Number	10/607,580
Filing Date	June 26, 2003
First Named Inventor	Nicholas Grippi
Group Art Unit	1362 / 651
Examiner Name	Not Yet Assigned / <i>hann/LC</i>
Attorney Docket Number	015445-9002-01

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12/9/85

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Substitution of form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT APR 08 2004 (use as many sheets as necessary)		Complete if Known	
Application Number		10/607,580	
Filing Date		June 26, 2003	
First Name Inventor		Nicholas A. Grippi	
Group Art Unit		1632- 1651	
Examiner Name		Not Yet Assigned HANLEY	
Attorney Docket Number		015445-9002-01	
Sheet	1	of	1

U.S. PATENT DOCUMENTS			
Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
SMA	6,010,627	Hood, III	1/4/2000

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract

Examiner Signature		Date Considered	12/9/05
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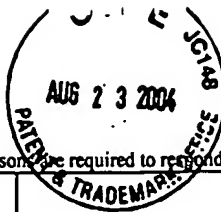
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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1



Complete if Known

Application Number	10/607,580
Filing Date	June 26, 2003
First Named Inventor	Nicholas A. Grippi
Group Art Unit	1632 1651
Examiner Name	Not Yet Assigned HANLEY
Attorney Docket Number	015445-9002-01

U.S. PATENT DOCUMENTS

Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
MA	5,419,835	Adams, et al.	5/30/1995
MA	5,853,600	McNeal, et al.	12/29/1998

FOREIGN PATENT DOCUMENTS

Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract

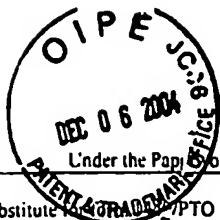
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				Filing Date	June 26, 2003
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Sheet	1	of	1	Attorney Docket Number	015445-9002-01

U.S. PATENT DOCUMENTS

Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
SW	3,654,925	Holderith, William J.	4/11/1972
SW	5,736,033	Coleman et al.	4/7/1998
SW	6,225,123	Cohen et al.	5/1/2001

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Sheet 1 of 6

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Application Number	10/607,580
Filing Date	June 26, 2003
First Named Inventor	Nicholas A. Grippi
Group Art Unit	1632 1651
Examiner Name	Not Yet Assigned HANLEY
Attorney Docket Number	015445-9002-01

U.S. PATENT DOCUMENTS

Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
SM	1,593,814	Vogel	7/27/1926
SM	4,485,096	Bell	11/27/1984

FOREIGN PATENT DOCUMENTS

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Signature

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			Application Number	10/607,580	
			Filing Date	June 26, 2003	
			First Named Inventor	Nicholas A. Grippe, Jr.	
			Group Art Unit	1632-1651	
			Examiner Name	Not Yet Assigned HANLEY	
Sheet	2	of	6	Attorney Docket Number	015445-9002-01

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
SMA	Franklin JD, Lynch JB, "Effects of topical application of epidermal growth factor on wound healing", <i>Plastic and Reconstructive Surgery</i> , December, 1979, pgs. 766-770.
	Buckley A, Davidson JM, "Sustained release of epidermal growth factor accelerates wound repair", <i>Proceeding National Academy Science USA</i> , Vol. 82, pgs. 7340-7344, November 1985.
	Sporn MB, Roberts AB, "Polypeptide transforming growth factors isolated from bovine sources and used for wound healing in vivo", <i>Science</i> , Vol. 219, pgs. 1329-1331, 18-March-1983.
	Canalis E, "Effect of Platelet-derived growth factor on DNA and protein synthesis in cultured rat calvaria", <i>Metabolism</i> , Vol. 30, No. 10, pgs. 970-975, October 1981.
	Niewiarowski S, Markiewicz, "Inhibition of the platelet-dependent fibrin retraction by the fibrin stabilizing factor (FSF, factor XIII)", <i>M, Journal of Laboratory and Clinical Medicine</i> , Vol. 81, No.6, pgs. 641-650, May 1973.
	Li AKC, Koroly MJ, "Mechanical and humoral factors in wound healing", <i>British Journal of Surgery</i> , Vol. 68, pgs. 738-743, 1981.
	Niewiarowski S, Millman M, "Potentiation of the thrombin induced platelet release reaction by fibrin", <i>Thrombosis Research</i> , Vol. 9, No. 2, pgs. 181-190, 1976.
SMA	Carroll RC, Gerrard JM, "Clot retraction facilitates clot lysis", <i>Blood</i> , Vol. 57, No. 1, pgs. 44-48, January 1981.

Examiner Signature		Date Considered	12/9/05
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/607,580	
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			First Named Inventor	Nicholas A. Grippe, Jr.	
			Group Art Unit	1632-1651	
			Examiner Name	Not Yet Assigned <i>HANLEY</i>	
Sheet	3	of	6	Attorney Docket Number	015445-9002-01

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
<i>SAA</i>	Joist JH, Niewiarowski S, "Retention of platelet fibrin stabilizing factor during the platelet release reaction and clot retraction", <i>Thrombos. Diathes. Haemorrh.</i> , Vol. 29, pgs. 679-683, 1973.
	Niall M, Ryan GB, "The effect of epidermal growth factor on wound healing in mice", <i>Journal of Surgical Research</i> , Vol. 33, No. 2, pgs. 164-169, August 1982.
	Cazenave JP, Packham MA, "Inhibition of platelet adherence to a collagen-coated surface by agents that inhibit platelet shape change and clot retraction", <i>Journal of Laboratory and Clinical Medicine</i> , Vol. 84, No. 4, pgs. 483-493, October 1974.
	Niewiarowski S, Stewart GJ, "Effect of ADP and thrombin on fibrin retraction induced by human platelets and fibroblasts", <i>Thromb Diathes Haemorrh</i> , Vol. 34, pgs.316-317, October 1974.
	Niewiarowski S, Goldstein S, "Fibrin clot retraction by human skin fibroblasts: effects of ADP and thrombin", <i>Proceedings of the Society for Experimental Biology and Medicine</i> , Vol. 151, pgs. 253-256, 1976.
	Cohen I, Gabbay J, "Fibrin-blood platelet interaction in a contracting clot", <i>Thromb Diath Haemorrh</i> , Vol. 34, No. 2, pgs. 559, Nov 15, 1975.
	Dhall TZ, Shah GA, "Fibrin network structure: modification by platelets", <i>Thrombosis and Haemostasis</i> , Vol. 49, No.1, pgs. 42-46, 1983.
<i>SMA</i>	Niewiarowski S, Gegoecki E, "Platelet interaction with fibrinogen and fibrin: comparison of the interaction of platelets with that of fibroblasts, leukocytes and erythrocytes", <i>Annals of the New York Academy of Sciences</i> , Vol. 201, pgs. 72-83, 1972.

Examiner Signature	<i>A Hanley</i>	Date Considered	12/9/05
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				Filing Date	June 26, 2003
				First Named Inventor	Nicholas A. Grippe, i
				Group Art Unit	1632 — 1651
				Examiner Name	Not Yet Assigned HANLEY
Sheet	4	of	6	Attorney Docket Number	015445-9002-01

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Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
SM	Knighton DR, Hunt TK, "Role of platelets and fibrin in the healing sequence: an in vivo study of angiogenesis and collagen synthesis", <i>Annals of Surgery</i> , Vol. 196, No. 4, pgs. 379-388, October 1982.
SM	Doni MG, Fantin G, "Thrombin-induced calcium and magnesium platelet release and clot retraction", <i>Haematologica</i> , Vol. 60, No. 3, pgs. 286-299, September 1975.
SM	Jelenska M, Kopec M, "Blood platelets cause retraction of collagen gel", <i>Thrombosis and Haemostasis</i> , Vol. 44, No. 3, pgs. 161-164, 1980.
	Table Of Contents, <i>Thrombosis et Diathesis Haemorrhagica</i> no date, publisher page number
SM	Lundblad RL, "A rapid method for the purification of bovine thrombin and the inhibition of the purified enzyme with phenylmethylsulfonyl fluoride", <i>Biochemistry</i> , Vol. 10, No. 13, pgs. 2501-2506, June 22, 1971.
SM	Chao FC, Tullis JL, "Concentration effects of platelets, fibrinogen and thrombin on platelet aggregation and fibrin clotting", <i>Thromb Diathes Haemorrh</i> , Vol. 32, No. 1, September 30, 1974.
SM	Solum, "Platelet aggregation during fibrin polymerization", <i>Scandinavian Journal of Clinical & laboratory Investigation</i> , Vol. 18, No. 6, pgs. 577-587, 1966.
SM	Tashjian, "Platelet-derived growth factor stimulates bone resorption via a prostaglandin-mediated mechanism", <i>Endocrinology</i> , Vol. 111, No. 1, pgs. 118-124, 1982.

Examiner Signature		Date Considered	12/9/05
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Substitute for form 1449B/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/607,580	
			Filing Date	June 26, 2003	
			First Named Inventor	Nicholas A. Gripps.i	
			Group Art Unit	1632- 1651	
			Examiner Name	Not Yet Assigned HANLEY	
Sheet	5	of	6	Attorney Docket Number	015445-9002-01

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SMA	Mustard JF, Perry DW, "Factors responsible for ADP-induced release reaction of human platelets", <i>American Journal of Physiology</i> , Vol. 228, No. 6, June 1975.
	Day HJ, Ang G, "Platelet release reaction during clotting of native human platelet-rich plasma", <i>Proceedings of the Society of Experimental and Biological Medicine</i> , Vol. 139, No. 3, pgs. 717-21, March 1972.
	Niewiarowski S, Stewart GJ, "ADP, thrombin and Bothrops atrox thrombin like enzyme in platelet-dependent fibrin retraction", <i>American Journal of Physiology</i> , Vol. 229, No. 3, pgs. 737-745, September 1975.
	Mustard JF, Perry DW, "Preparation of suspensions of washed platelets from humans", <i>British Journal of Haematology</i> , Vol. 22, No. 2, pgs. 193-204, February 1972.
	Packham MA, Guccione MA, "Platelet aggregation and release: effects of low concentrations of thrombin or collagen", <i>American Journal of Physiology</i> , Vol. 225, No. 1, pgs. 38-47, July 1973.
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	Thorton JW, Hess CA, "Epidermal growth factor In the healing of second degree burns: a controlled animal study", <i>Burns</i> , Vol. 8, No. 3, pgs. 156-160, 1983.
SMA	Holmsen H, Day HJ, "The blood platelet release reaction", <i>Scandinavian Journal of Haematology (Supplement K)</i> , pgs.3-21, 1969.

Examiner Signature	<i>[Signature]</i>	Date Considered	12/9/05
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			Application Number	10/607,580	
			Filing Date	June 26, 2003	
			First Named Inventor	Nicholas A. Gripgs.i	
			Group Art Unit	1632 1651	
			Examiner Name	Not Yet Assigned <i>WATANLEY</i>	
Sheet	6	of	6	Attorney Docket Number	015445-9002-01

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<i>SN</i>		Rosenthal AR, Harbury C, "Use of a platelet-fibrinogen-thrombin mixture as a corneal adhesive: experiments in sutureless lamellar keratoplasty in the rabbit", <i>Investigative Ophthalmology</i> , Vol. 14, No. 11, pgs. 872-75, November 1975.
<i>I</i>		Schulte W, "Centrifuged autologous blood for filling large bone defects: a modification to the autologous blood method", <i>Zentrifugiertes Eigenblut (Centrifuged Autologous Blood) DZZ 24</i> , Vol. 10, pgs. 854-57, 1969.
		Schulte W, "Autologous Blood Filling: A new method in the treatment of major bone defects following oral surgery", <i>Eigenblutfullung Grosserer Knochendefekte DZZ 15</i> , Vol 12, pgs. 910-14, 1960.
		Rosenthal AR, Egbert PR, "Use of Platelet-Fibrinogen-Thrombin mixture to seal experimental penetrating corneal wounds", <i>Graefes Archiv Ophthalmologie</i> , Vol. 207, pgs. 111-115, 1978.
<i>✓</i>		Silverberg GD, Harbury CB, "A physiological sealant for cerebrospinal fluid leaks", <i>Journal of Neurosurgery</i> , Vol. 46, pgs. 215-19, February 1977.
<i>SN</i>		Pearl RM, Wustrack KO, "Microvascular Anastomosis using a blood product sealant-adhesive", <i>Surgery, Gynecology & Obstetrics</i> , Vol. 144, pgs. 227-31, February 1977.

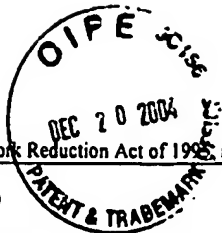
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STATEMENT BY APPLICANT**

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Application Number	10/607,580
Filing Date	June 26, 2003
First Named Inventor	Nicholas A. Grippi
Group Art Unit	1632 1651
Examiner Name	Not Yet Assigned HANLEY
Attorney Docket Number	015445-9002-01

Sheet	1	of	2
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U.S. PATENT DOCUMENTS

Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
SAH	6,569,204	Aldecoa	5/27/2003

FOREIGN PATENT DOCUMENTS

Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract

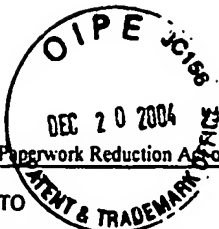
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				Application Number	10/607,580
				Filing Date	June 26, 2003
				First Named Inventor	Nicholas A. Grippi
				Group Art Unit	1632-1651
				Examiner Name	Not Yet Assigned <i>HANLEY</i>
Sheet	2	of	2	Attorney Docket Number	015445-9002-01

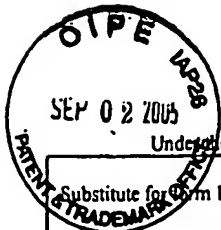
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<i>EMA</i>		BERNSTEIN, LORI R., et al., "Migration of Cultured Vascular Cells in Response to Plasma and Platelet-Derived Factors", Departments of Physiology and Surgery, Harvard Medical School, Children's Hospital Medical Center, J. Cell Sci. 56, 1982, pgs. 71-82.
		ZETTER, BRUCE R., et al., "Stimulation of Human Vascular Endothelia Cell Growth by a Platelet Derived Growth Factor and Thrombin", Journal of Supramolecular Structure 11, 1979, pgs. 361-370.
		KNIGHTON, DAVID R., et al., "Platelet-Derived Angiogenesis: Initiator of Healing Sequence", Department of Surgery, School of Medicine, University of California, San Francisco, 1986, pgs. 226-228.
		SEPPÄ, HEIKKI, et al., "Platelet-derived Growth Factor is Chemotactic for Fibroblasts", The Journal of Cell Biology, vol. 92, February 1982 pgs. 584-588.
		SENIOR, ROBERT, M., "Chemotactic Activity of Platelet Alpha Granule Proteins for Fibroblasts", The Journal of Cell Biology, vol. 96, February 1983, pgs. 382-385.
<i>DR</i>		GOSPODAROWICZ, DENIS, "Humoral Control of Cell Proliferation: The Role of Fibroblast Growth Factor in Regeneration, Angiogenesis, Wound Healing, and Neoplastic Growth", Department of Molecular Endocrinology, Salk Institute for Biological Studies, San Diego, California, 1976, pgs. 1-19.

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First Named Inventor	Nicholas A. Grippi
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Sheet	1	of	1
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U.S. PATENT DOCUMENTS

Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
GA	5,795,571	Cederholm-Williams, et al.	8/18/1998

FOREIGN PATENT DOCUMENTS

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